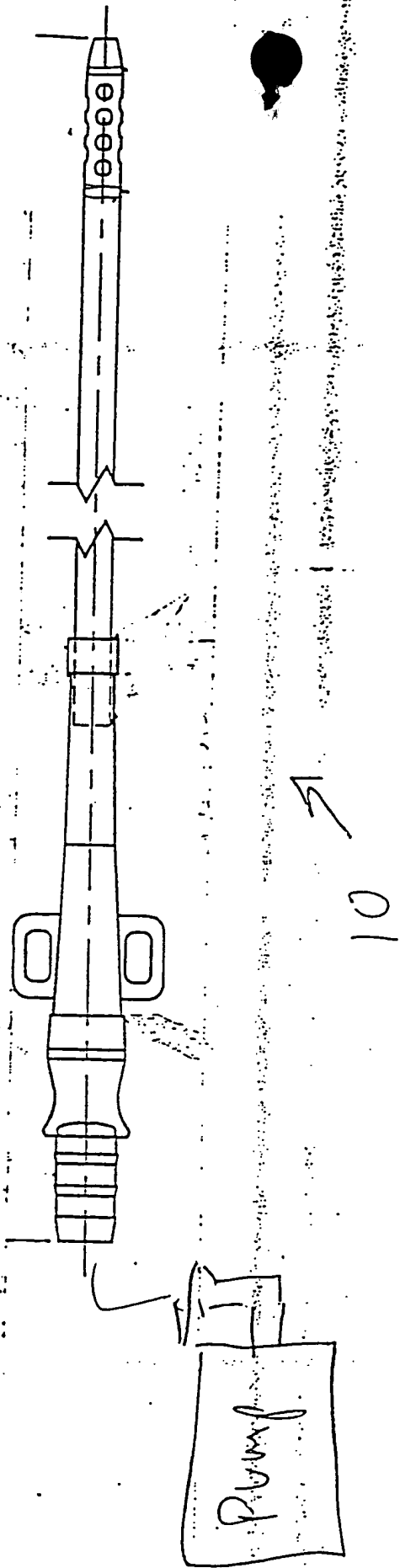
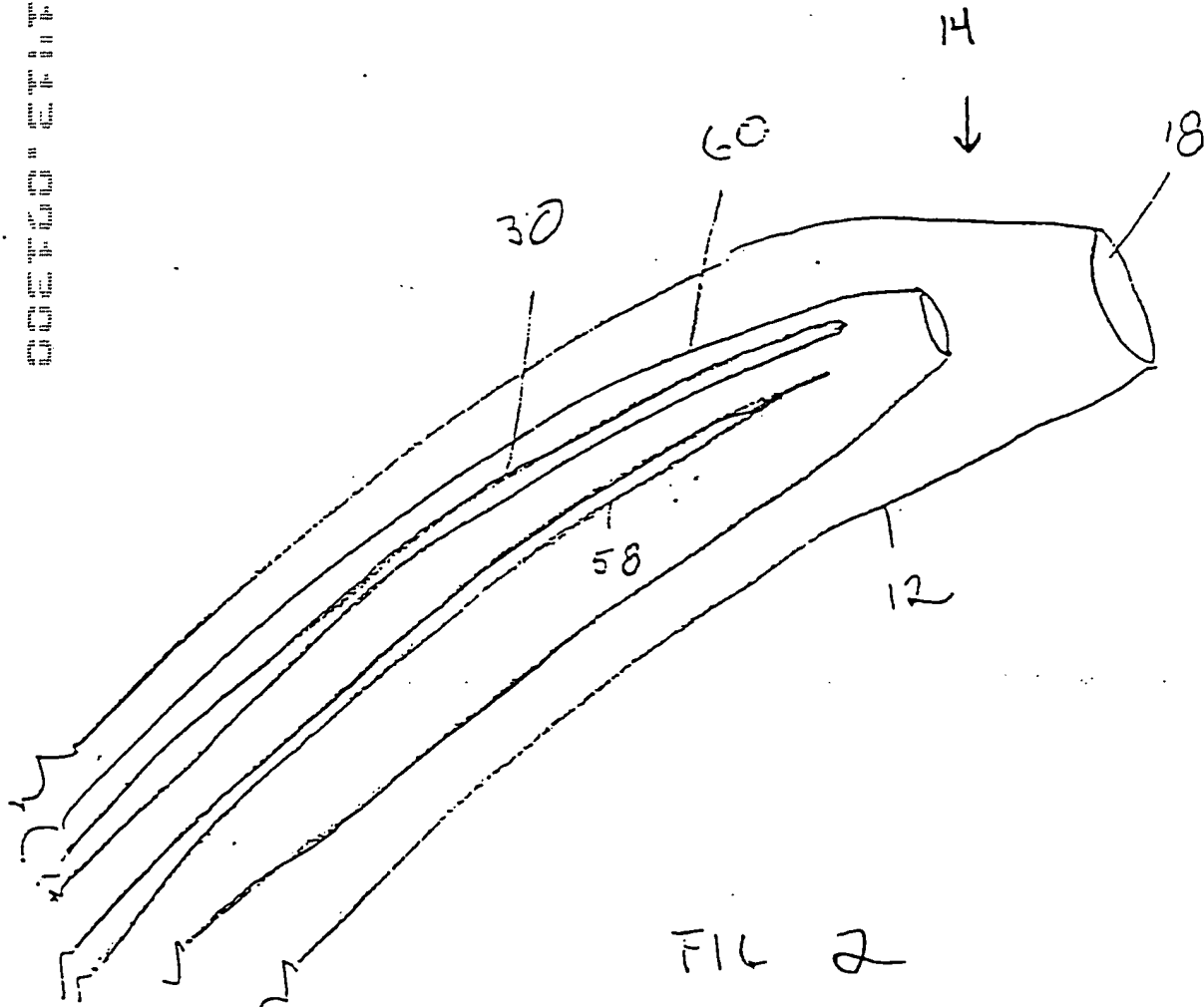
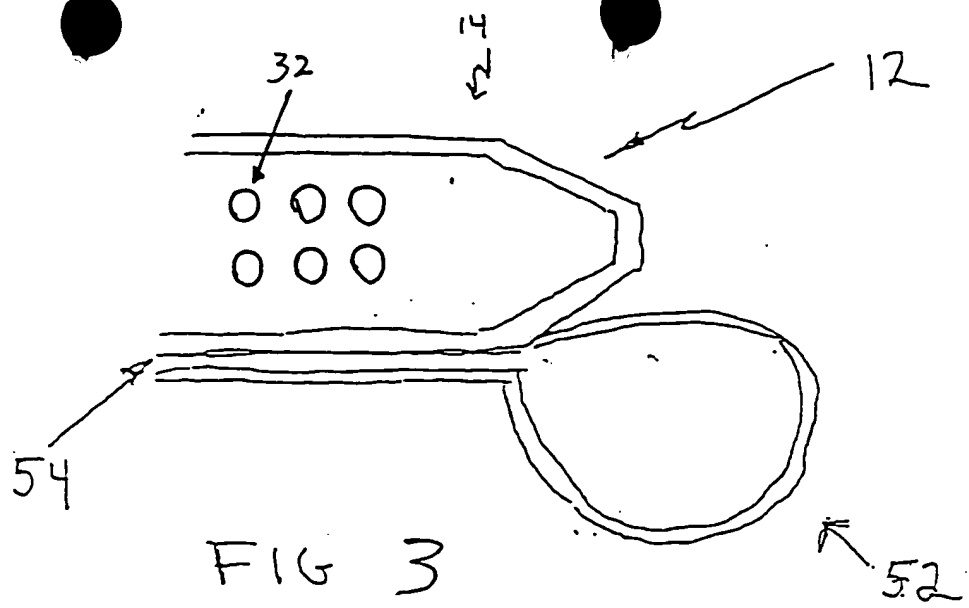
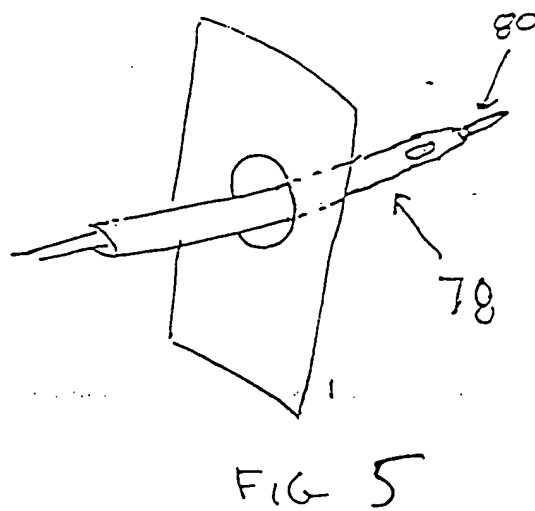
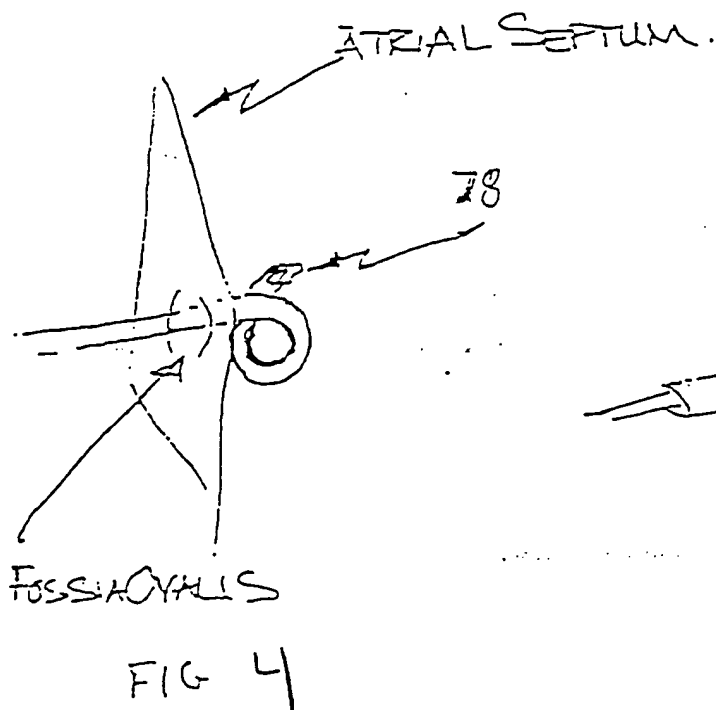
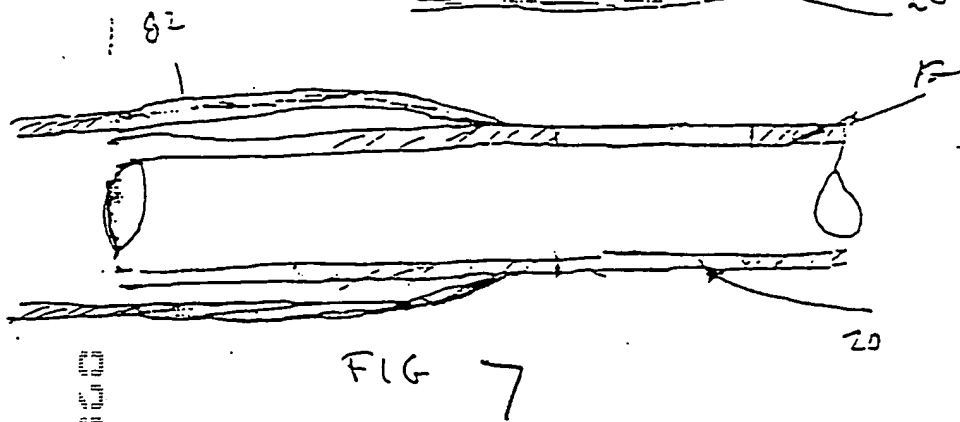
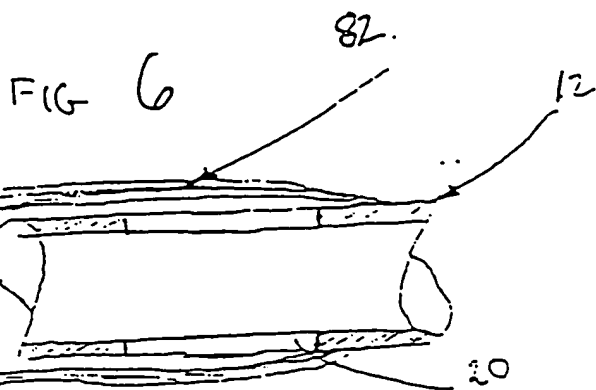


FIG 1







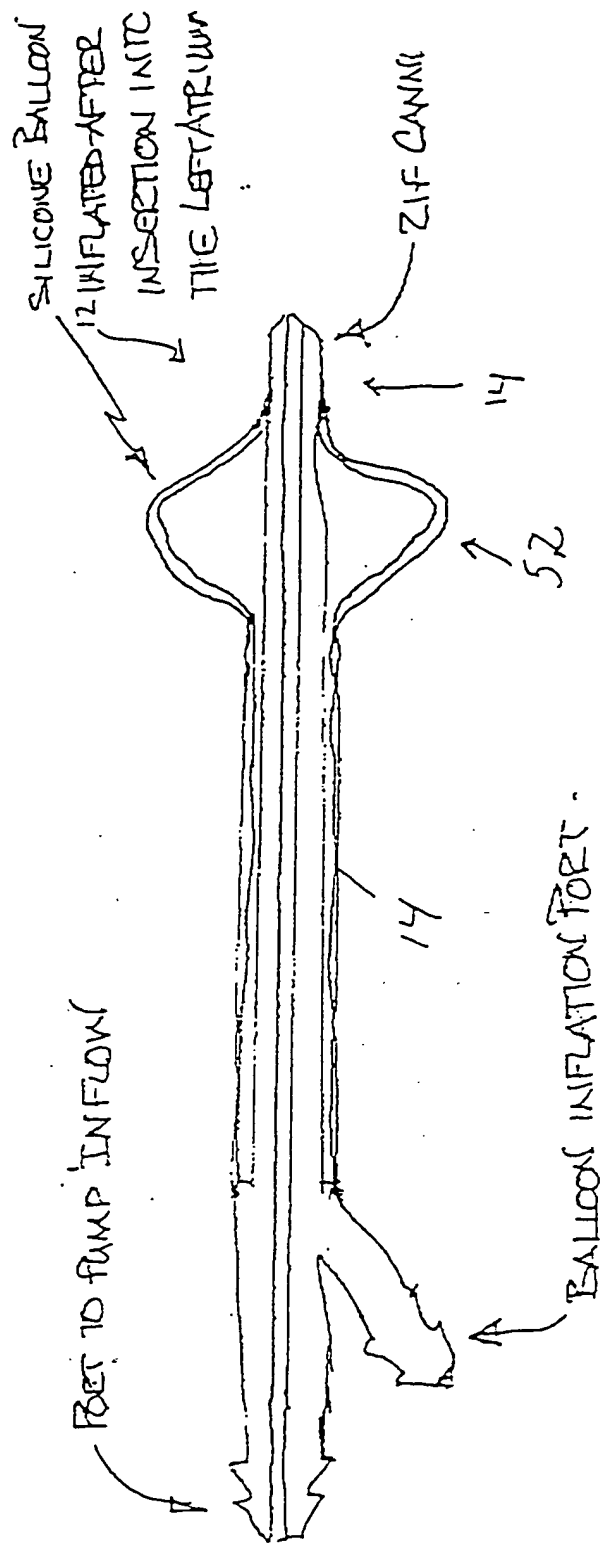


FIG 8

28

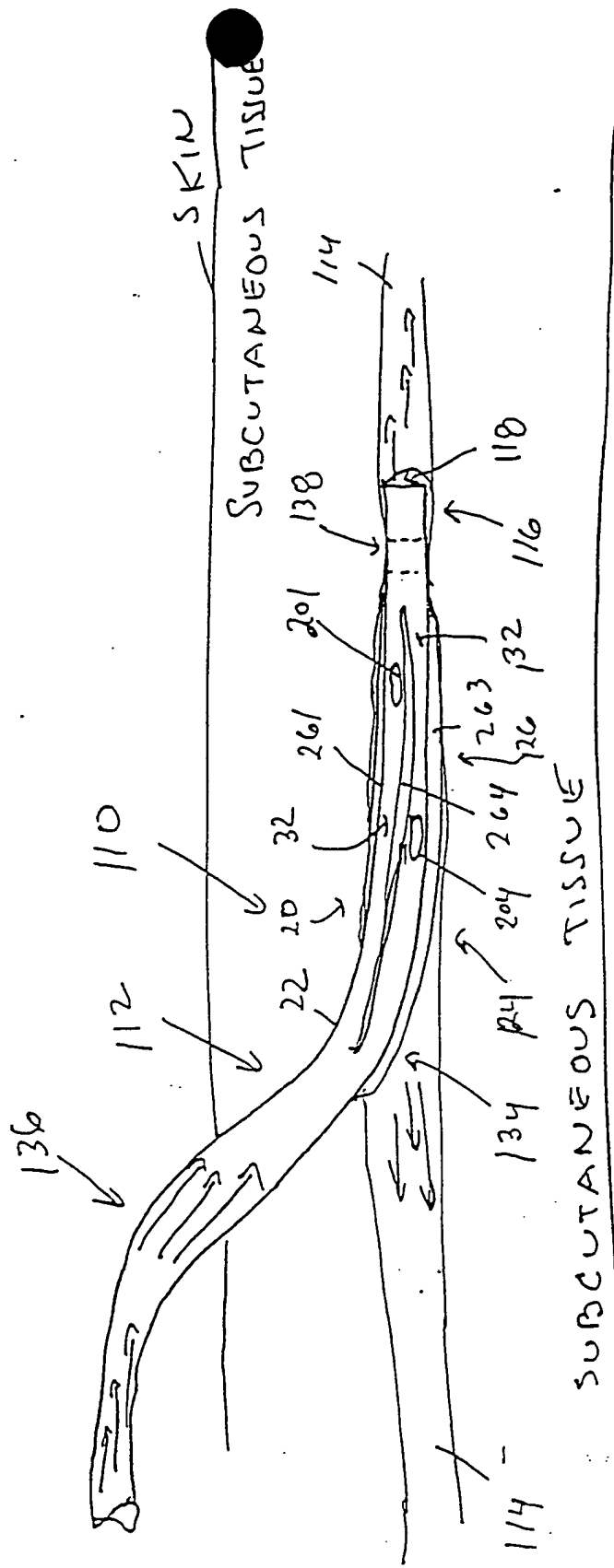
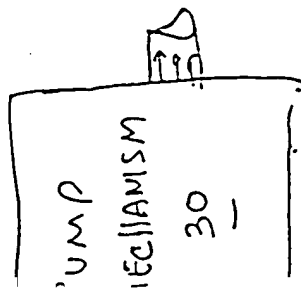
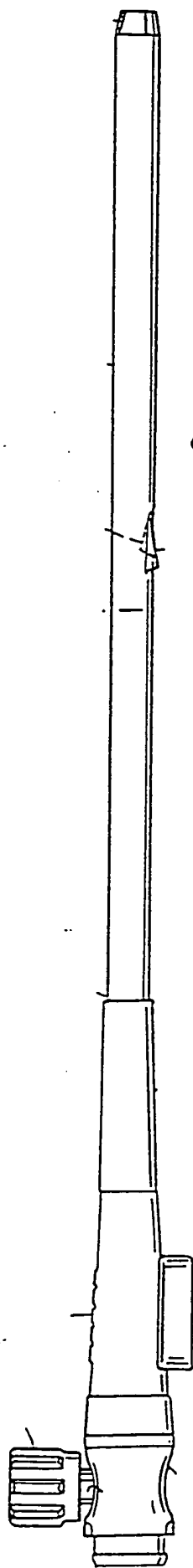


FIG 9

COPIES OF THE PATENT



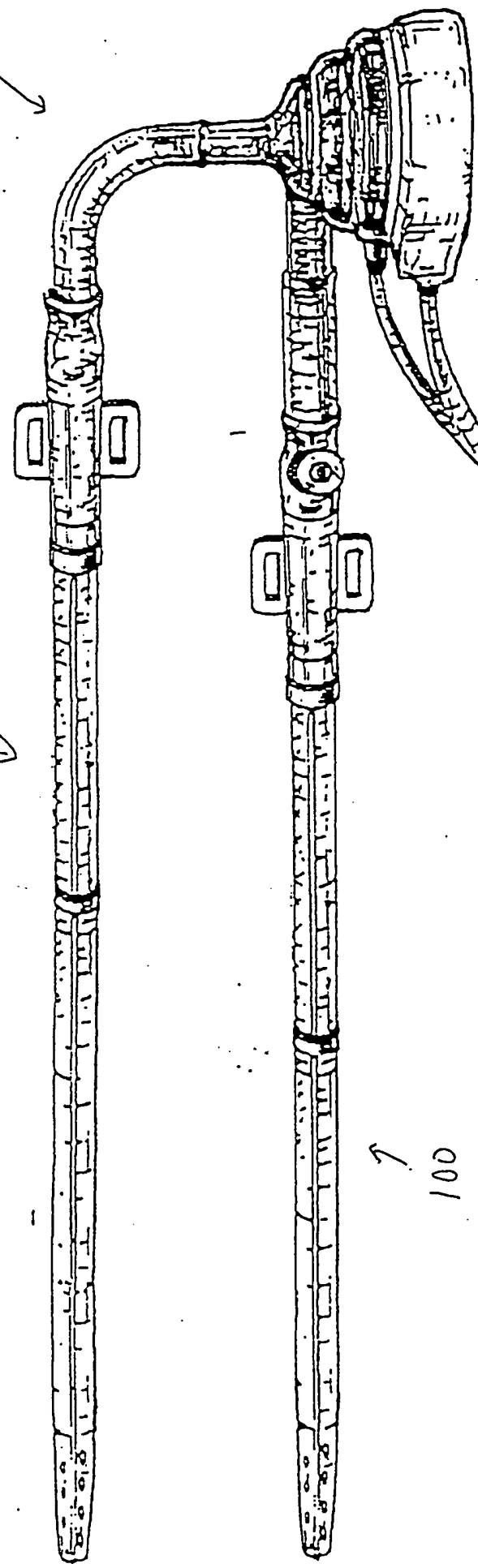
110

Fig. 10

FIG. 100

12

324



100

316

30

CONTROLLER

332

FIG. 11

System 300

FIG. 12

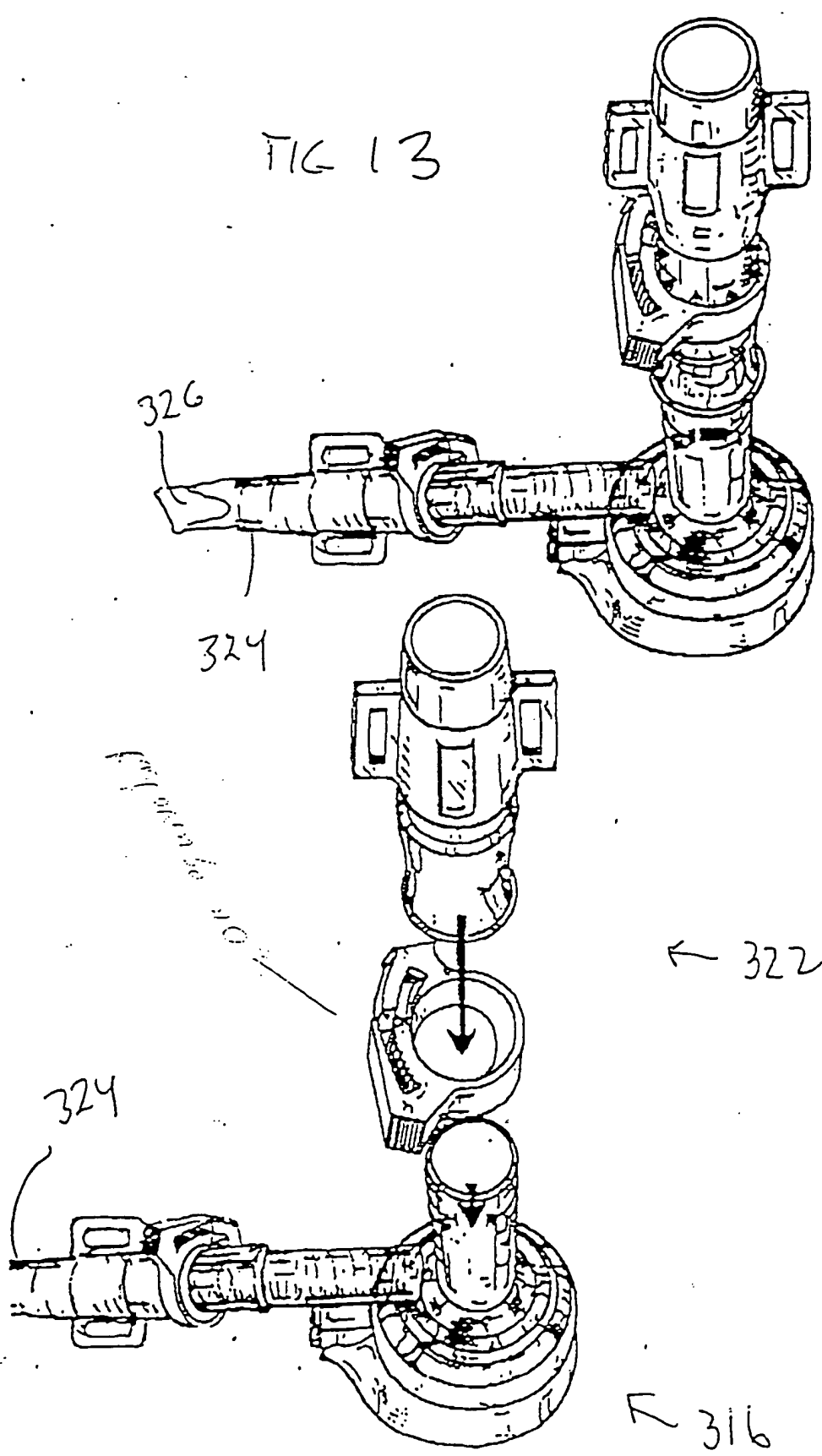


FIG 13

← 322

← 316

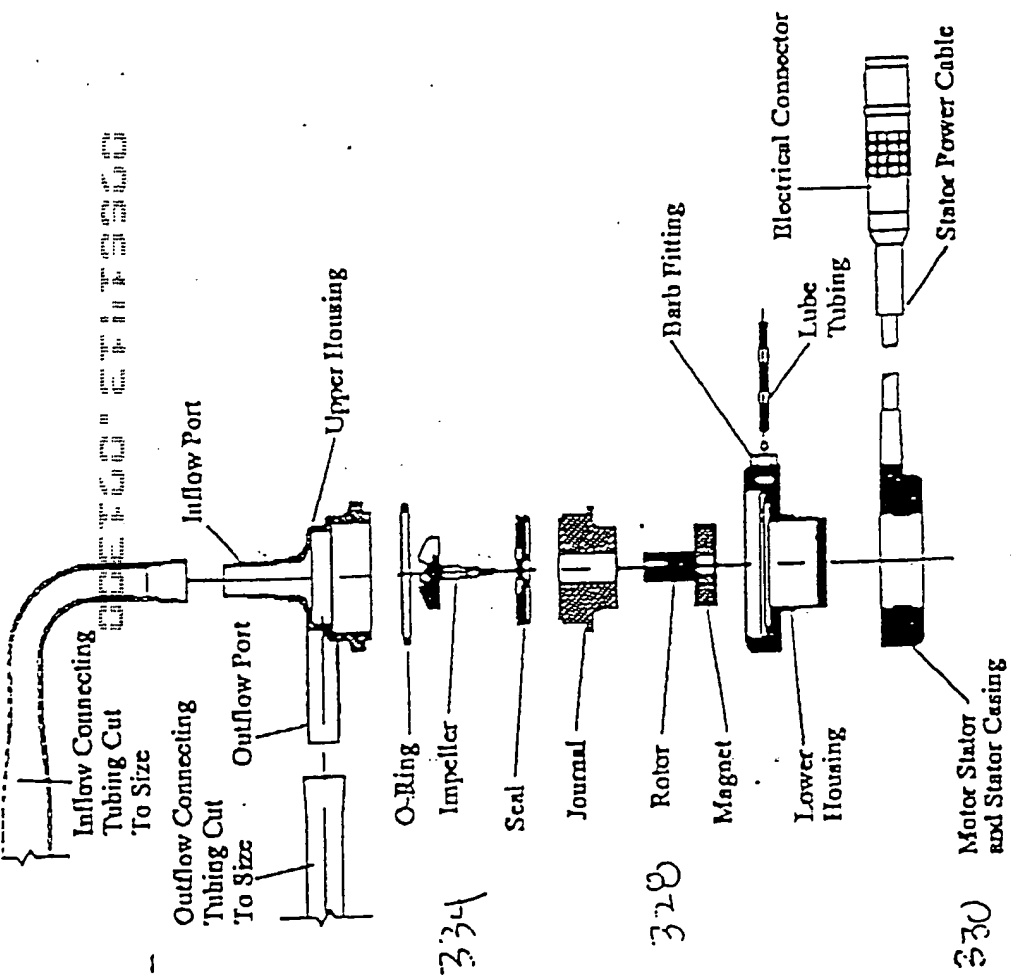
← 322

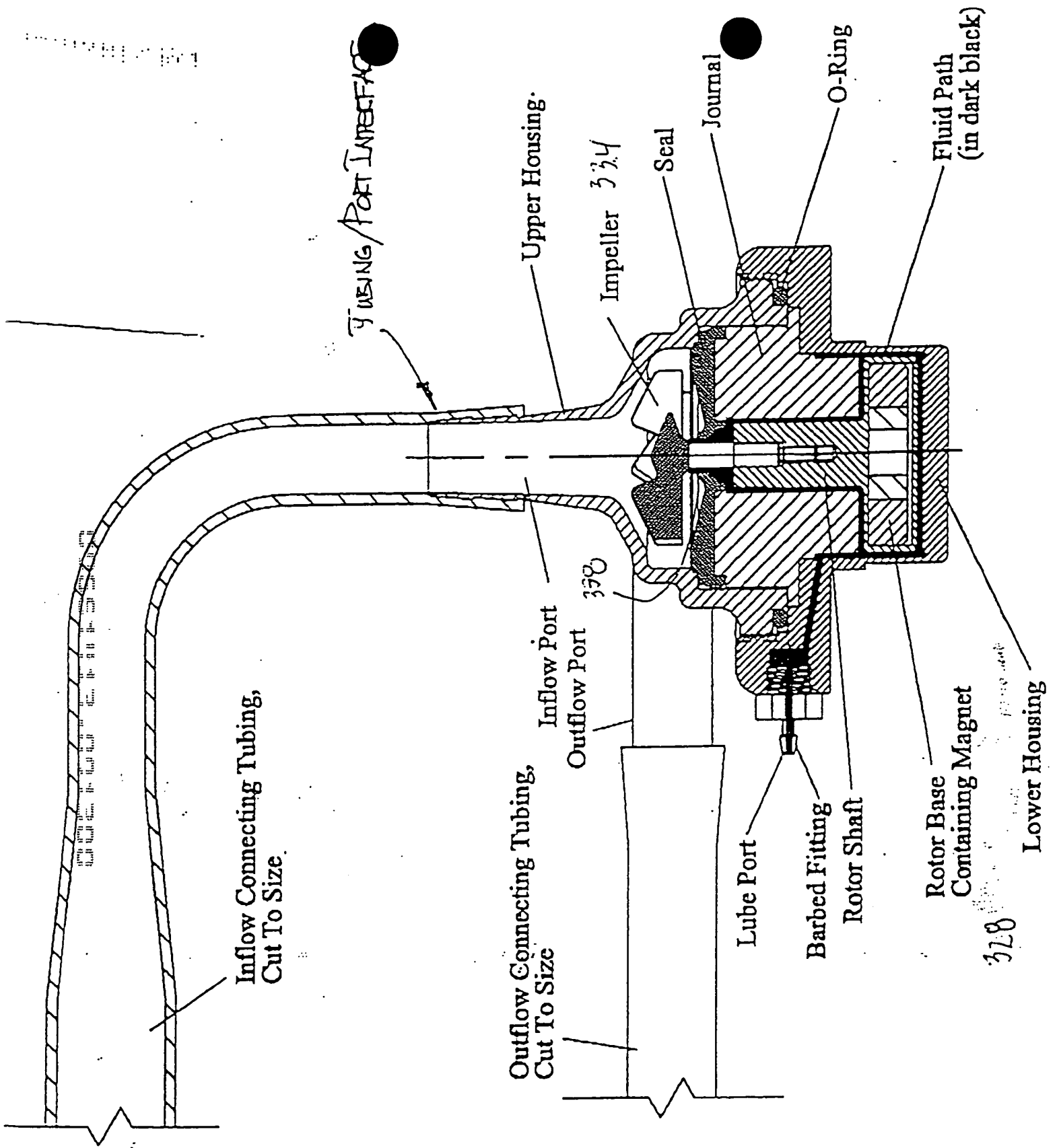
← 316

FIG 12



FIG 14





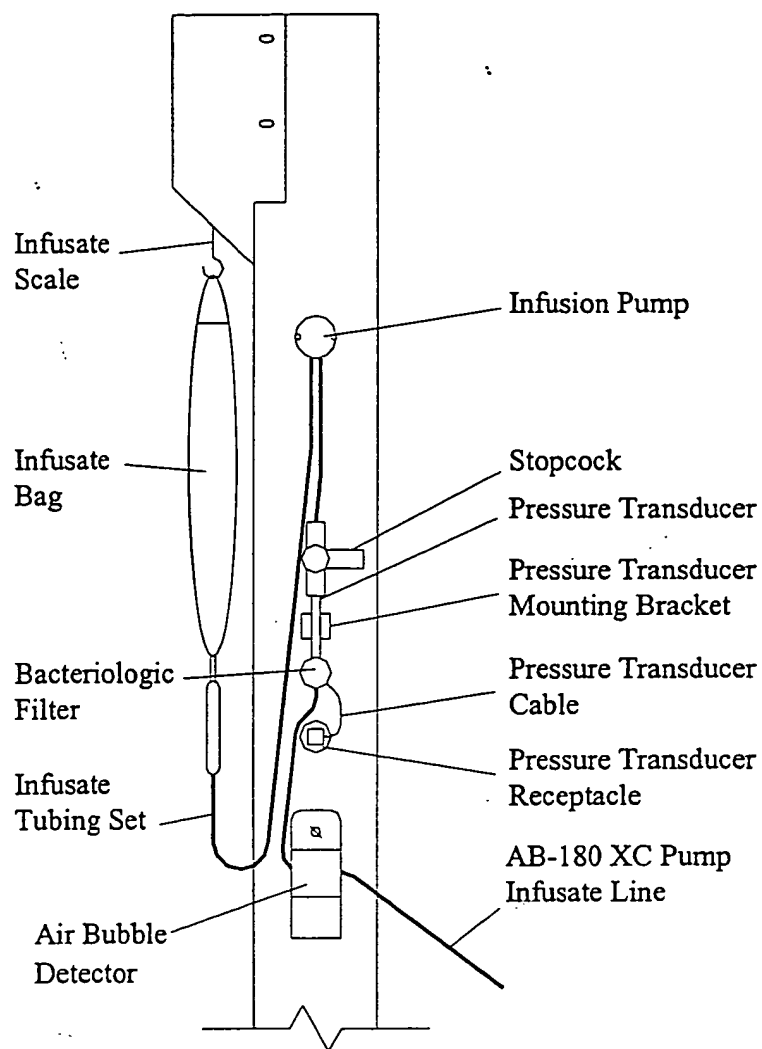
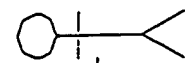


Figure 15a

# Patient

- Pump Drive
- Occl. Air
- Lube Fluid



3 cond  
+ shld  
1 Air  
1 Fluid

Operator  
Control  
Panel

## Lube Fluid

- Pump Direction -d
- Reset -d
- 12V Pwr (2)
- Screen Pwr (2)
- Pump current (2) - a
- Speed Set (2) - a
- Battery A - a
- Battery B - a
- Occl. Pressure - a
- Lube Pressure - a
- Lube weight - a
- Case temp - a
- Pump On/Off (2) - d
- Pump speed (2) - d
- Occluder infl - d
- RS-232 - d
- Alarm Contact - d
- W/D enable - d
- Pri/Bkup select - d
- Pump Flow - a
- Bubble Detect - d

3 cond  
+ shld  
1 Air

## Pole

- SBCMB
- Bag Weigh
- Lube Pressure
- Lube Pump
- Status Panel LED's
- Ground
- Bubble Detector
- Reset Circuit

18 cond  
+ 2 shld  
+ Grd Stud Connected

## Power Assembly

- 120/240 VAC IN
- RS-232 OUT
- Nurse Panel OUT

3 cond Pwr (2)  
2 cond analog  
+ shld (2)  
2 cond analog  
+ shld (2)  
7 cond analog  
+ shld  
10 cond Digital  
+ Grd Stud

FIG 16 a

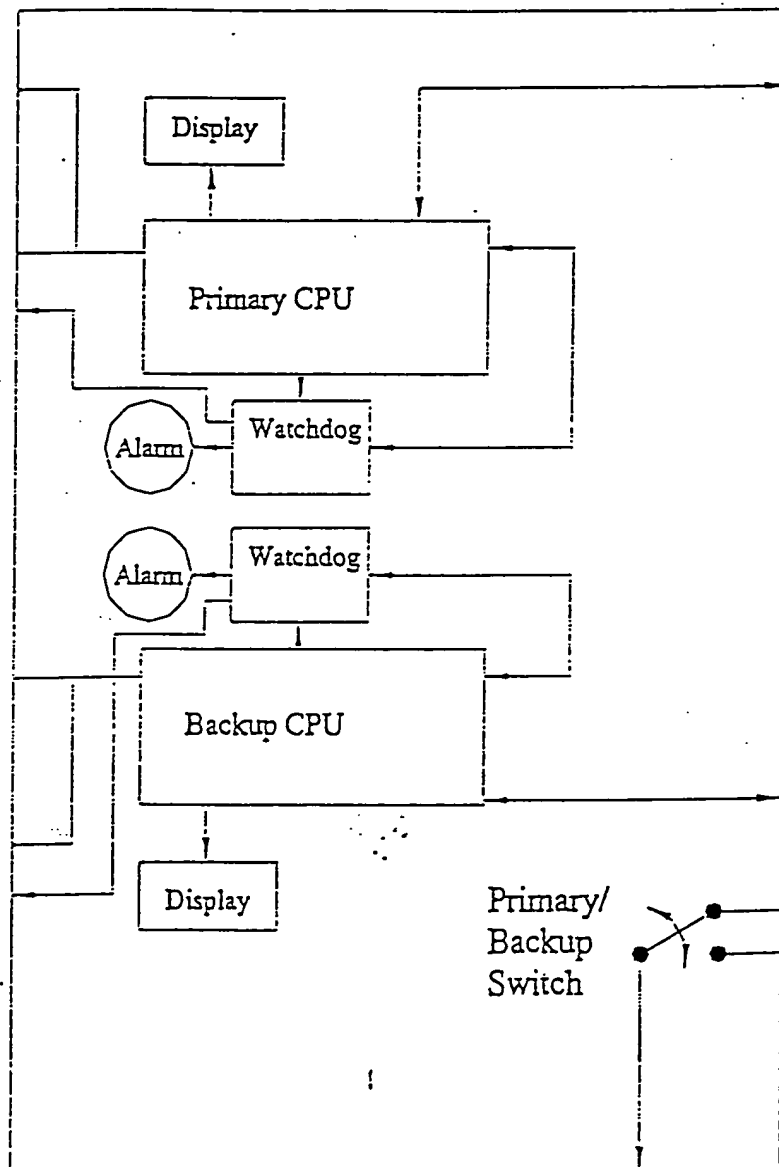
## Control Panel

- Switches
- Pump on/off
  - Alarm mute
  - Speed Set

- Lights
- Pump ON
  - Occluder Inflated/ Bubble Detected
  - Alarm
  - Pri/Bkup

- Switches
- Pump on/off
  - Alarm mute
  - Speed Set

- Lights
- Pump ON
  - Occluder Inflated/ Bubble Detected
  - Alarm
  - Pri/Bkup



## To/From Power Assembly

- 12 V Power, sense
- Screen Power
- Pump Current
- Speed Set
- Pump On/Off
- Pump Speed
- Pump Direction
- Battery A
- Battery B
- Occl. pressure
- Lube pressure
- Lube weight
- Case temp
- W/D enable
- Occluder infl
- RS-232
- Alarm Contact
- Pri/Bkup Select
- 12 V Power, sense
- Screen Power
- Pump Current
- Speed Set
- Pump On/Off
- Pump Speed
- Pump Drive
- Occlu. Air

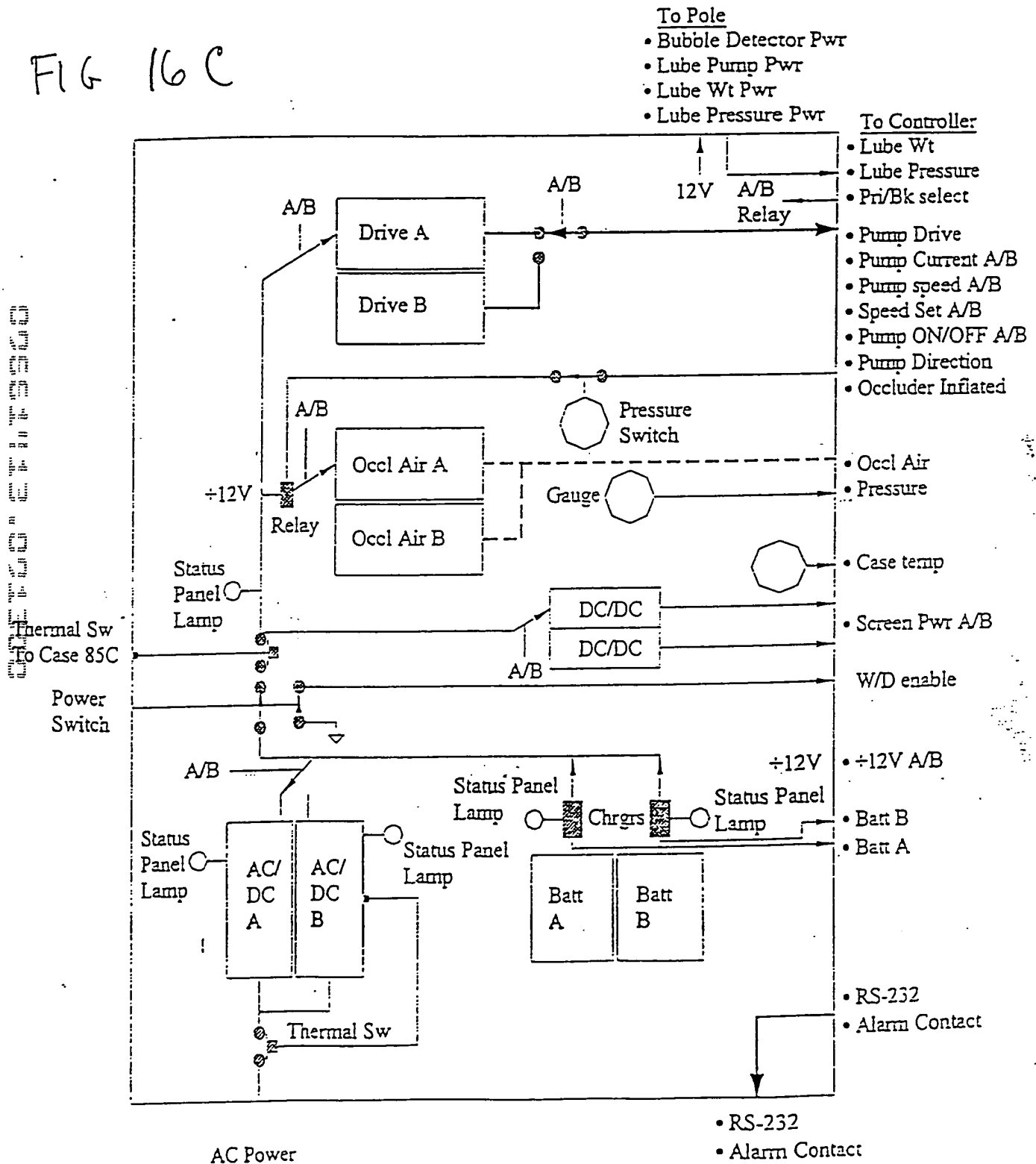
## To Patient

- Pump Drive
- Occlu. Air

FIG 16 b

# Power Assembly

FIG 16 C



SECMB CONNECTION DIAGRAM

FIG 16d

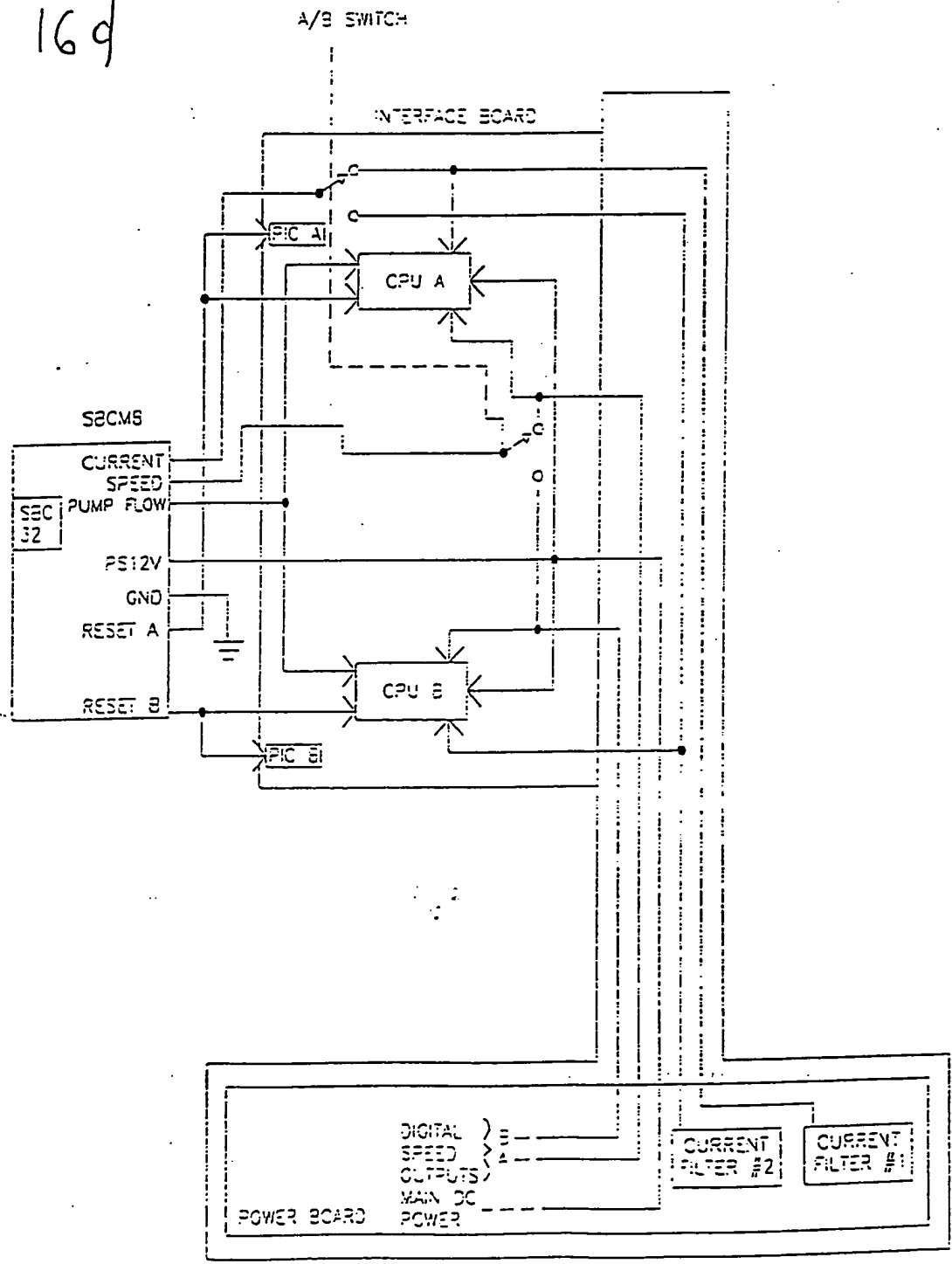


Figure 16e is a block diagram of the AB-180 XC Pump Motor Control system. The diagram is divided into three main sections: Power Supply, Control Logic, and the Infusion System. The Power Supply section shows AC Power In connected to a Power Supply (Prm. Unit) and a Power Supply (Bk. Unit). Both are connected to a 12 V Batteries unit. The Control Logic section includes User Input (Prm. Unit) and User Input (Bk. Unit) connected to CPU (Prm. Unit) and CPU (Bk. Unit) respectively. Watchdog batteries are connected to Watchdog (Prm. Unit) and Watchdog (Bk. Unit). The Infusion System section includes an Infusate Scale, Infusion Pump, Pressure Transducer, Air Bubble Detector, Motor Controller (Prm. Unit), Motor Controller (Bk. Unit), Motor Driver (Prm. Unit), Motor Driver (Bk. Unit), Motor Feedback (Prm. Unit), Motor Feedback (Bk. Unit), Flow Indicator, Emergency Shut Off, and AB-180 XC Pump. The diagram uses solid lines for Power Buss, double lines for Infusate flow, and dashed lines for Control signals. A note states 'Control power buss not shown for clarity'.

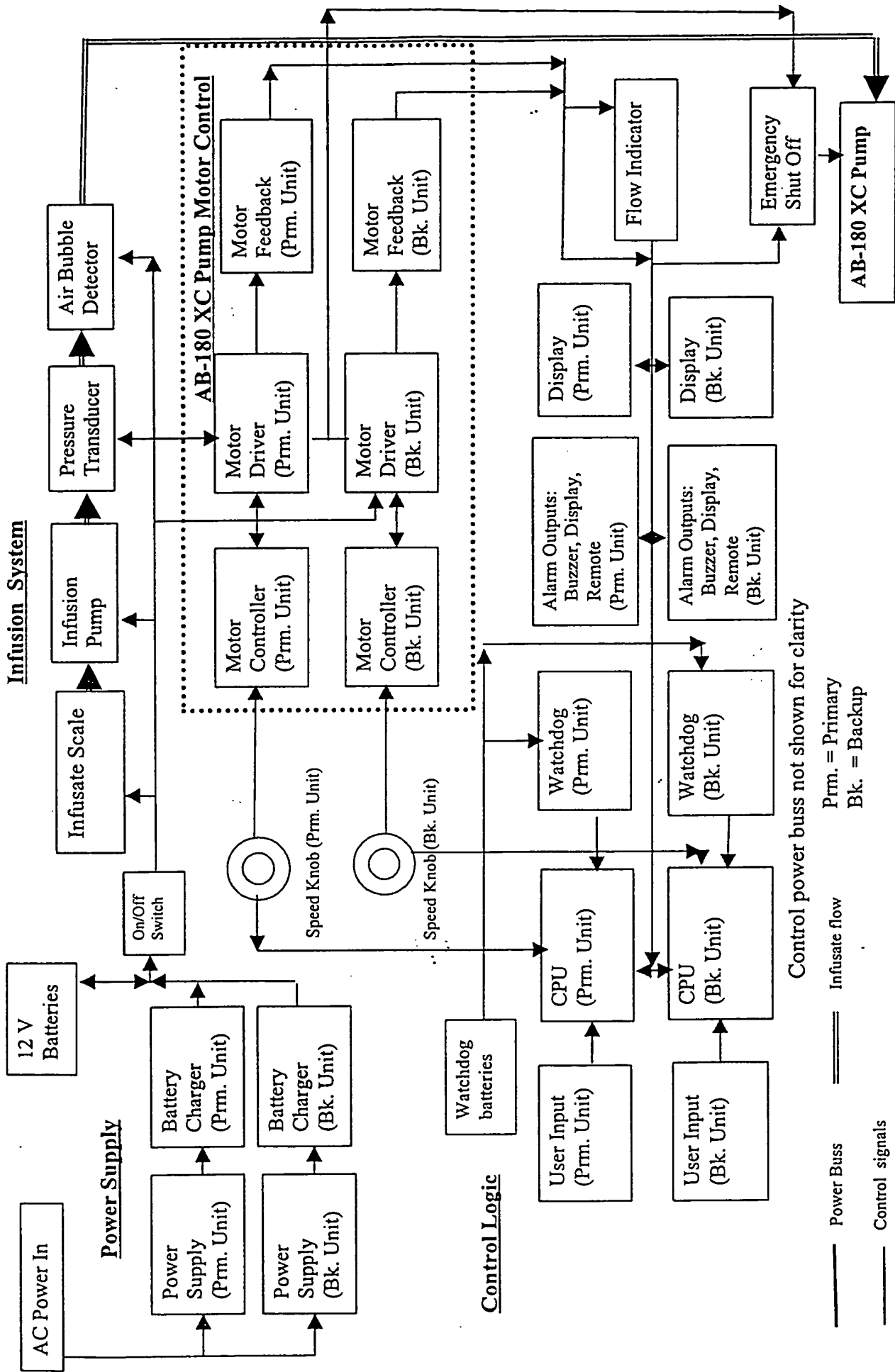
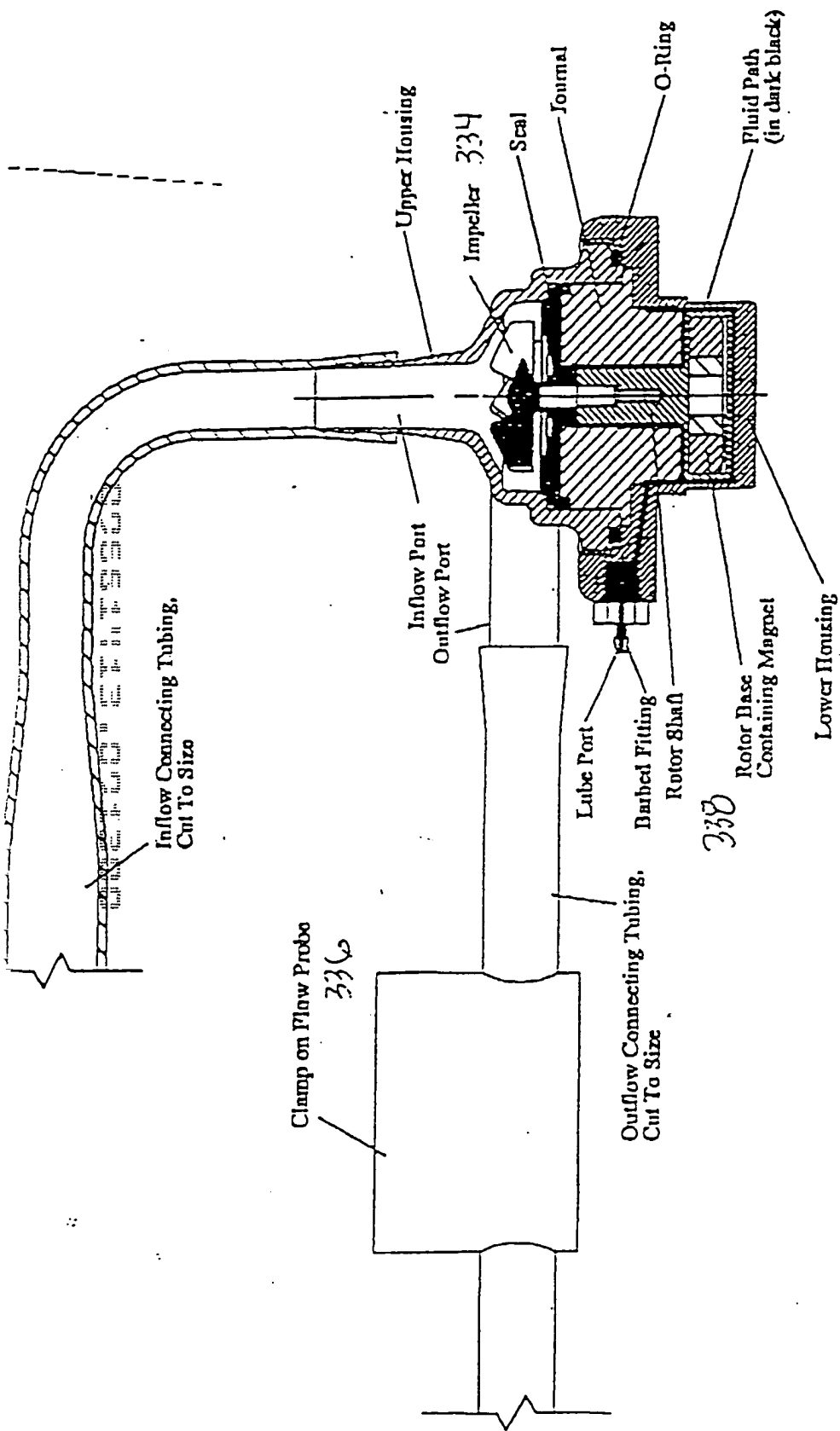


Figure 16e.





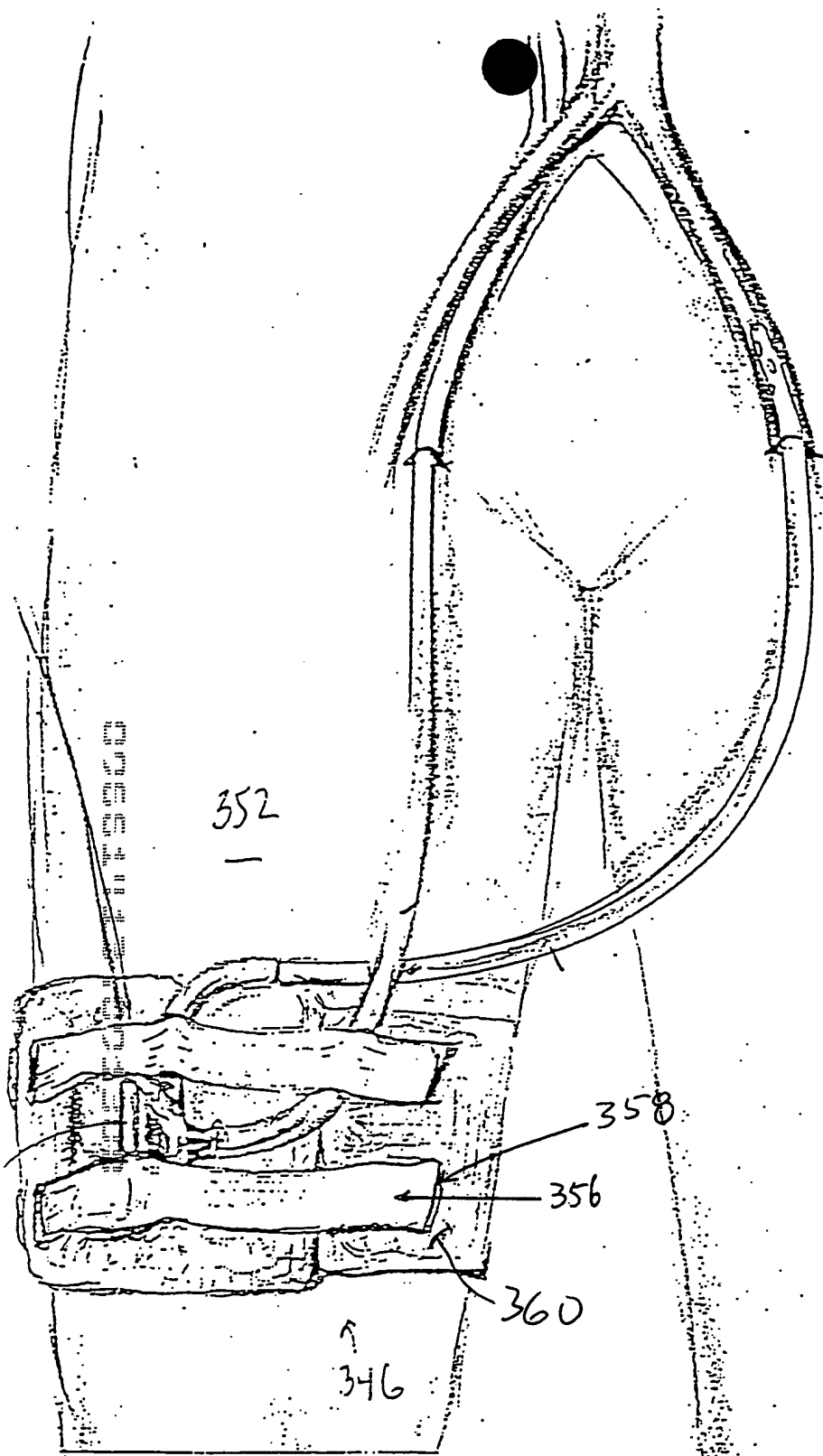


FIG 18  
Patient Portion  
350

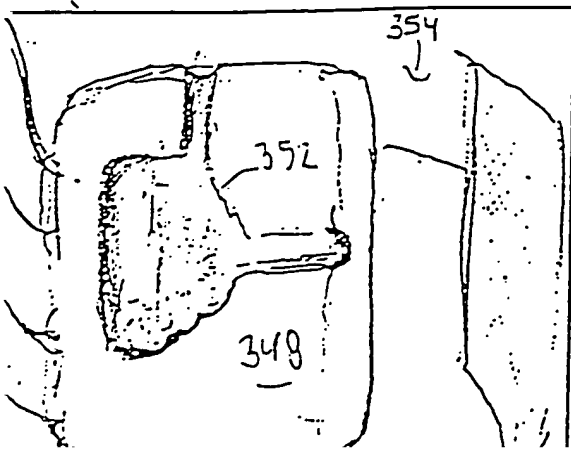


FIG  
19

A black and white line drawing of a mechanical device, possibly a pump or engine component. The drawing is oriented vertically. On the left side, there is a large, curved, ribbed structure that resembles a bellows or a large valve. A central vertical shaft or pipe runs through the middle of the device. On the right side, there is a complex assembly of pipes, valves, and mechanical components, including what looks like a pump or a motor. The drawing is labeled '346' with a downward arrow pointing to the central shaft area. The overall style is that of a technical sketch or a patent drawing.

346  
↓

-316

FIG. 21

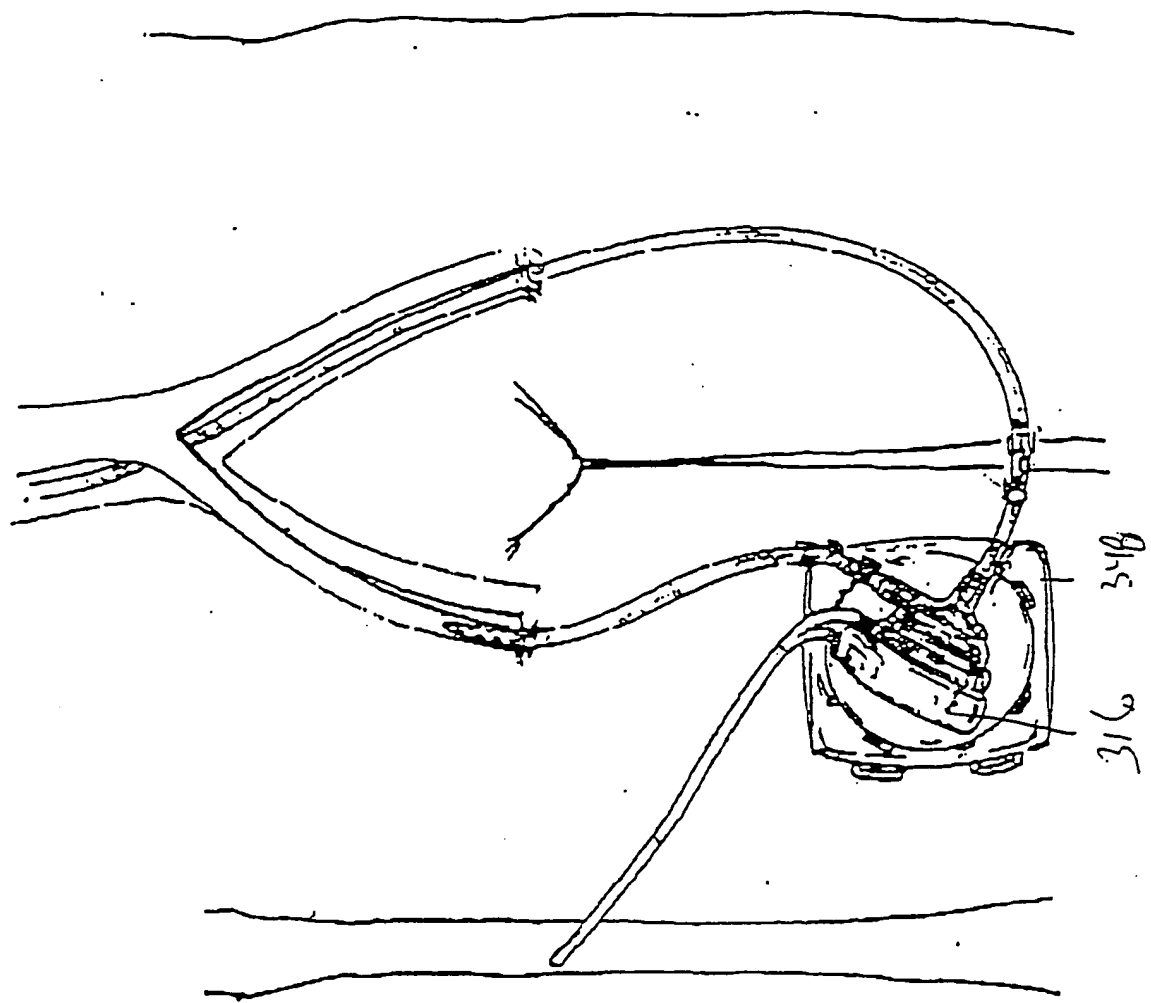
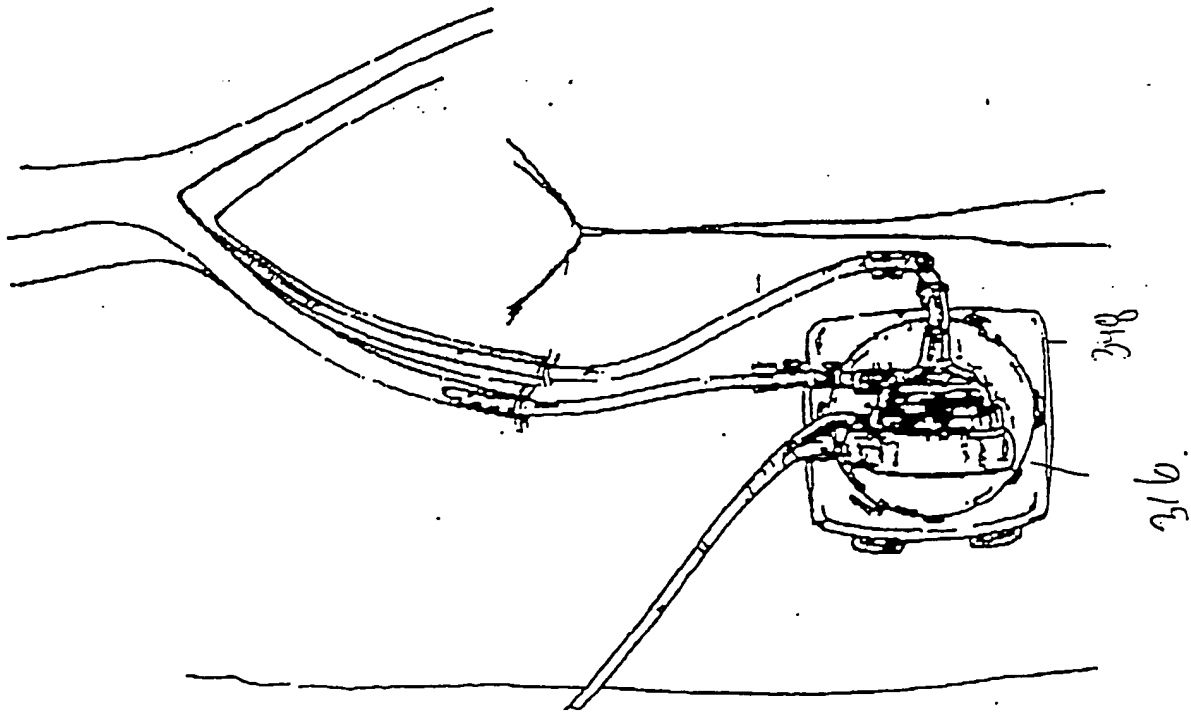
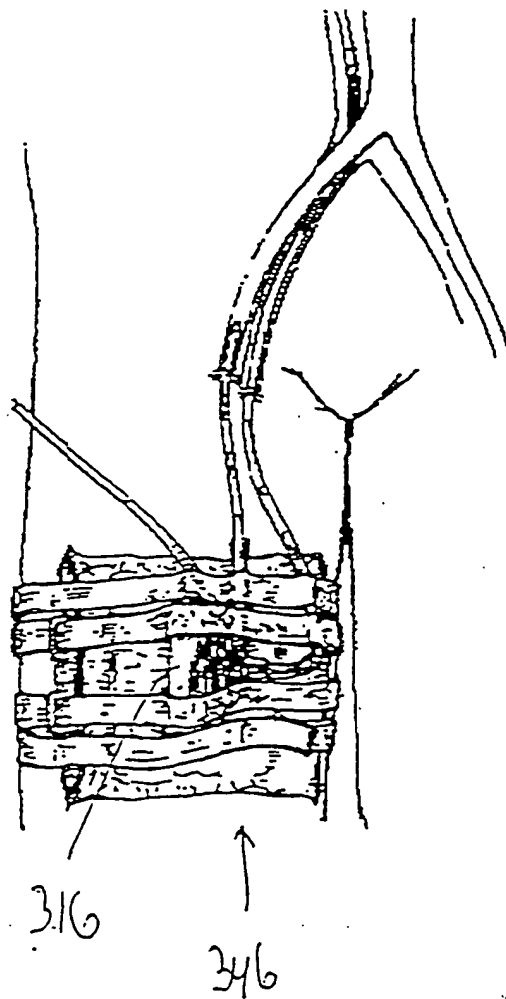


FIG. 22

FIG. 21



Fil 23

```

/---|   |---|   |---|   |---|   |---|
|   |   |   |   |   |   |   |   |
|   |---|   |---|   |---|   |---|   |
<----- elapsed_ms ----->

```

elapsed\_ms = Actual number of milliseconds in the time interval.

Fig 24

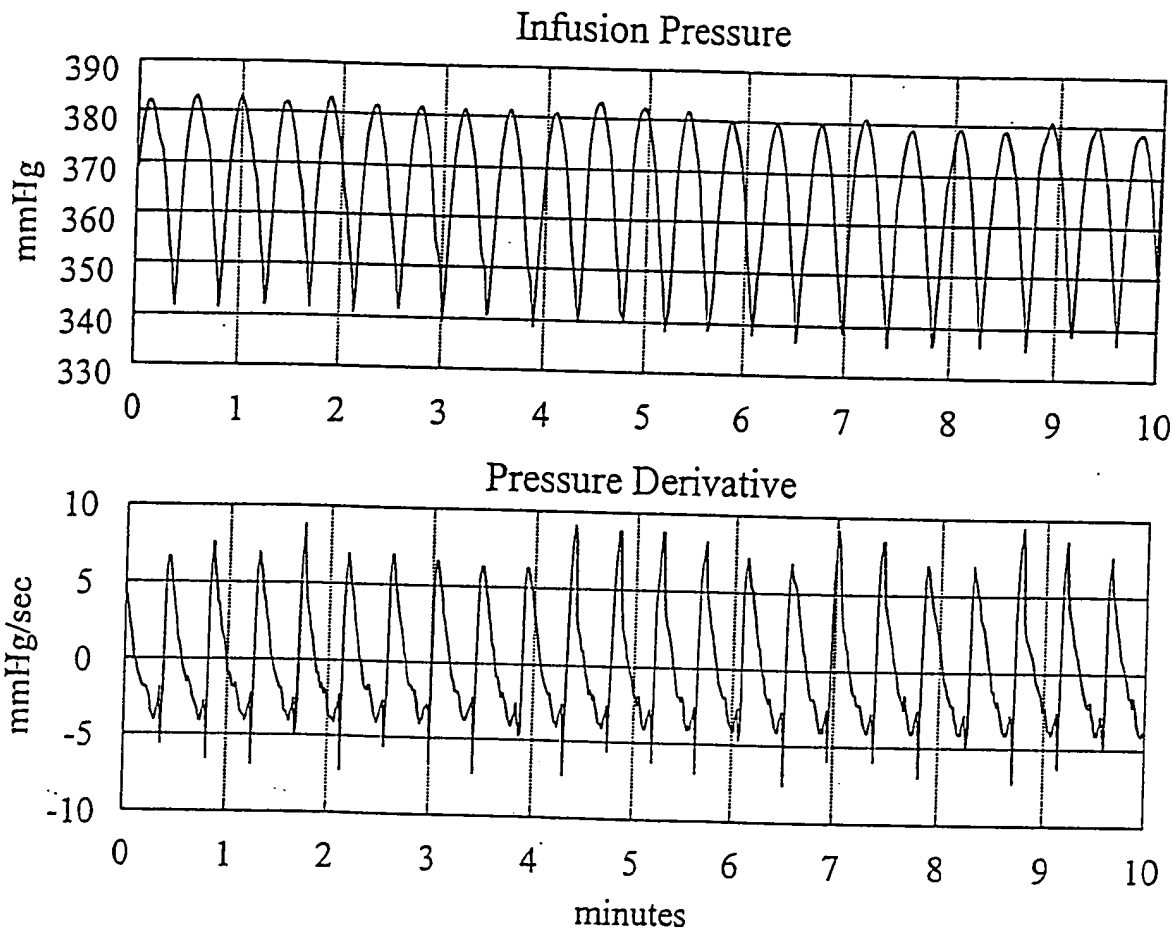


FIG 25

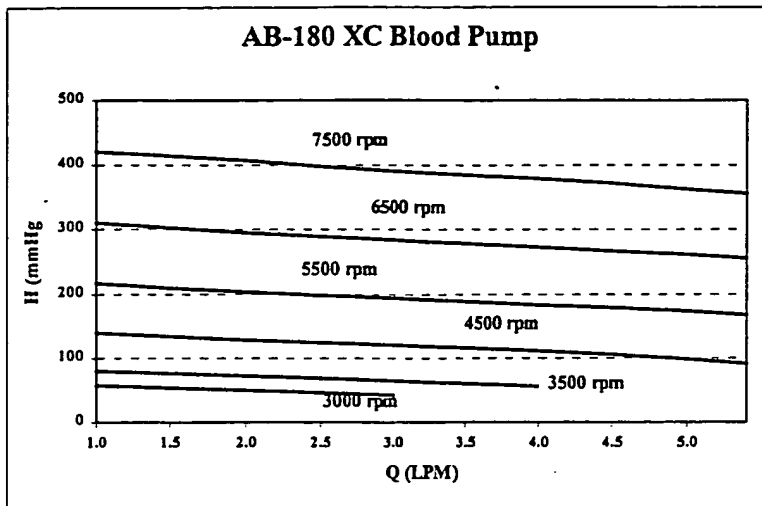


Figure 26a.

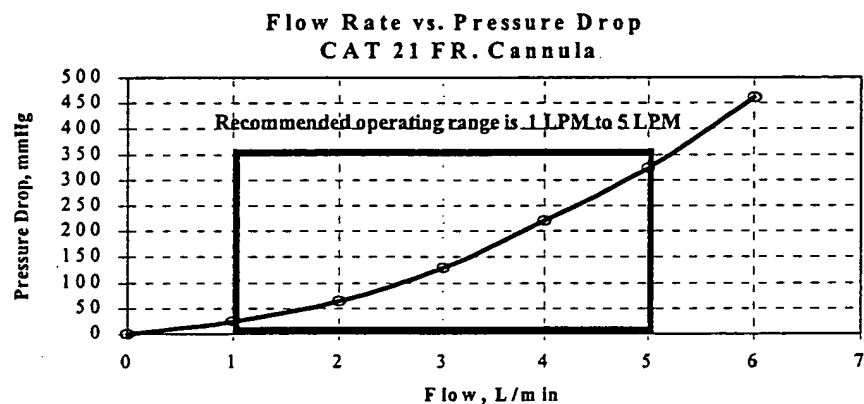
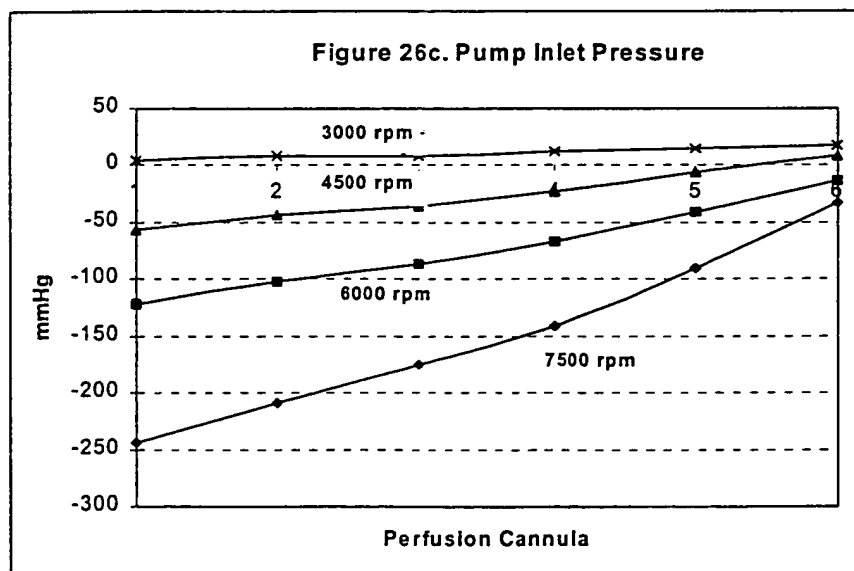


Figure 26b.





**21 Fr. PVTC Cannula**

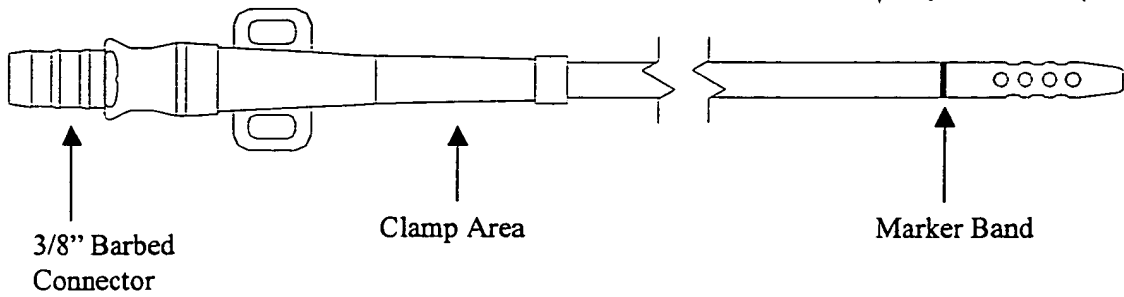


FIG 27 c

**13 Fr. PVTC Catheter**

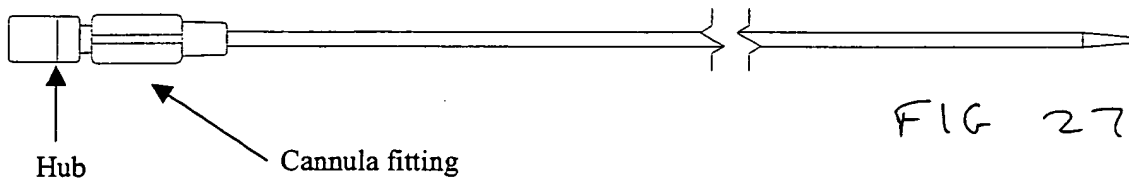


FIG 27 b

**14/21 Fr. PVTC Two Stage Dilator**

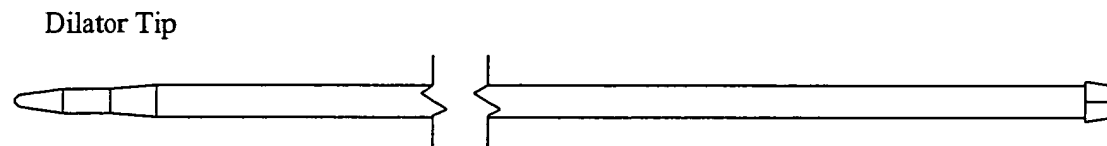


FIG 27 a

המחבר מודיע כי המערכת תוארה כאן היא תוכנית המחשב, והיא אינה מהווה תוכנית מחשב, והיא אינה מהווה תוכנית מחשב, והיא אינה מהווה תוכנית מחשב.

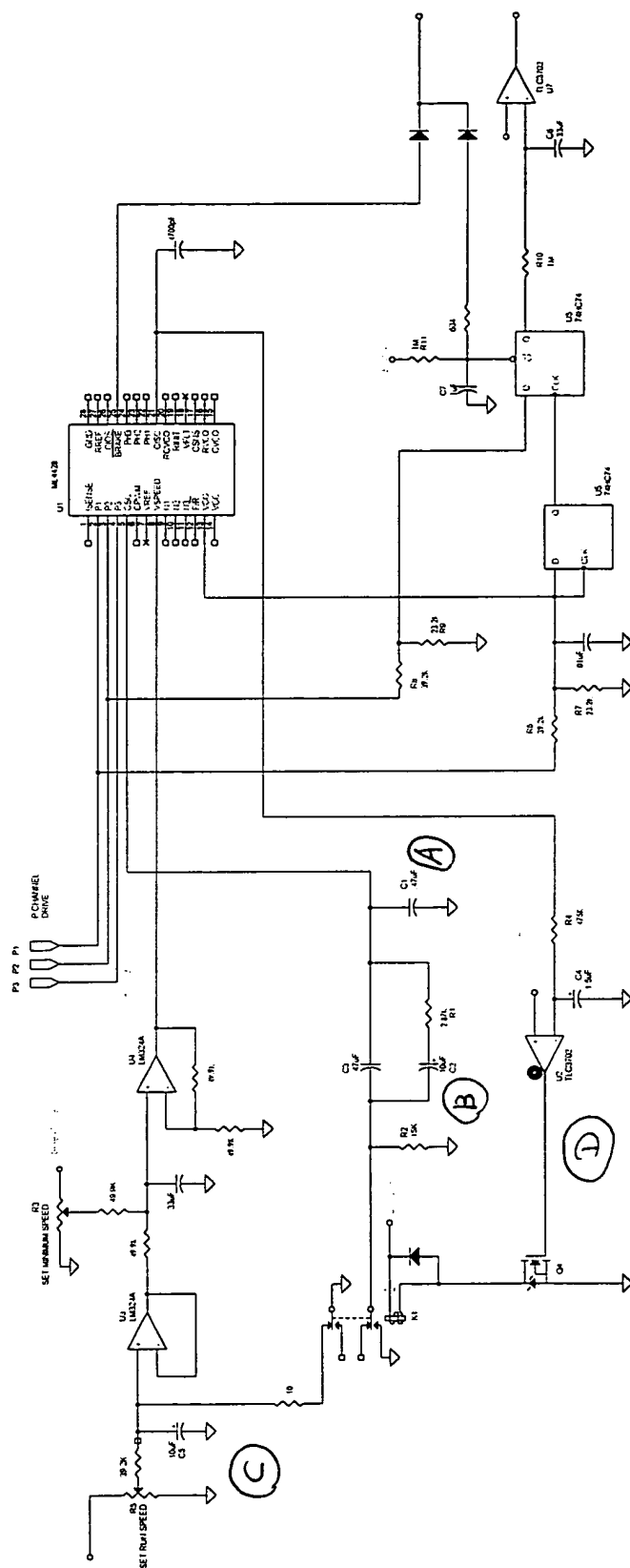


FIG 28

